

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/052430

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L12/56

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 324 550 A (KABUSHIKI KAISHA TOSHIBA) 2 July 2003 (2003-07-02) paragraphs '0014! - '0018! -----	1-6, 8, 9
X	US 2002/061009 A1 (SORENSEN JOHAN) 23 May 2002 (2002-05-23) paragraph '0033! -----	1-4, 8, 9
X	US 5 740 160 A (IKEGAMI ET AL) 14 April 1998 (1998-04-14) column 1, lines 51-67 -----	1, 2, 4, 8, 9
A	EP 1 274 194 A (KABUSHIKI KAISHA TOSHIBA) 8 January 2003 (2003-01-08) paragraphs '0007!, '0012! - '0018! -----	1-9

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

25 May 2005

Date of mailing of the international search report

01/06/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Weinmiller, J

INTERNATIONAL SEARCH REPORT

Information on patent family members

Interr | Application No
PCT/IB2004/052430

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1324550	A	02-07-2003	JP 2003198672 A	11-07-2003
			JP 2003198455 A	11-07-2003
			JP 2003198673 A	11-07-2003
			CN 1430449 A	16-07-2003
			EP 1324550 A2	02-07-2003
			US 2003125074 A1	03-07-2003
US 2002061009	A1	23-05-2002	AU 2426702 A	03-06-2002
			WO 0243333 A2	30-05-2002
US 5740160	A	14-04-1998	JP 2692633 B2	17-12-1997
			JP 8242245 A	17-09-1996
			JP 2692634 B2	17-12-1997
			JP 8242246 A	17-09-1996
EP 1274194	A	08-01-2003	JP 2003018148 A	17-01-2003
			EP 1274194 A1	08-01-2003
			US 2003007641 A1	09-01-2003